PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the intial phase of reconstruction of the existing traffic control signal at the intersection of MD 193 and Metzerott Road/ Relocated Paint Branch Drive (formely Azalea Lane) in Prince George's County, Maryland. MD 193 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to be modified to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive left turn phase for both the east and westbound movements of MD 193. The MD 193 through movements will operate concurrently with a concurrent pedestrian movement across the north leg of the intersection. The Metzerott Road/ Relocated Paint Branch Drive will operate in a side street split mode with an actuated pedestrian movement across the west leg of the intersection.

The existing eight phase controller is to be relocated to a new full-traffic-actuated base mounted cabinet with two 4-channel rack mounted time delay output loop detector amplifiers and four video detection cameras.

EQUIPMENT LIST

A. Equipment to be furnished and/or installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

			All equipment in this list shall have catalog cuts submitted for	or approval prio	to installati	on.	
Quantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization for Traffic Signal Construction.	8	CY	205	Test pit excavation.
Lump Sum	LS	104	Maintenance of Traffic for Traffic Signal Construction.	15	EA	811	Handhole.
1	EA	818	27 ft. steelmast arm pole with 50 ft. mast arm	300	LF	815	Sawcut for signalloop detector.
			ENote: four 1-3/4 in. x 90 in. anchor bolts].	675	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
1	EA	818	27 ft. steel twin mast arm pole with 50 ft. and 70 ft. mast arms [Note: four 2 in. x 90 in. anchor bolts].	2000	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
. 2	EA	818	10 ft, steel pedestal pole with break away transformer base	600	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
		,	(Note four 1 in. x 40 in. anchor bolts).	1275	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
	ĘA	818	15 ft. steel pedestal pole with break away transformer base [Note: four 1 in. x 40 in. anchor bolts].	1085	LF	810	3-conductor electrical cable (No. 14 A.W.G.).
. 1	EA	816	Standard S.H.A. traffic signal base mounted cabinet, two 4-channel loop detector amplifiers, video camera detection equipment, and all necessary equipment for a Telemetry interconnect system. 1 Note: Cabinet shall be supplied by Econolite and delivered to the MD-SHA signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650].	1650	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
				1650	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
				7Ô	LF	804	3-wire (No. 4 A.W.G.) electrical cable.
			Relocation of existing controller to be performed by	700	LF	810	Bare copper stranded ground wire (No. 6 A.W.G.).
			MD-SHA forces. Notify MD-SHA signal shop 72 hours prior to requiring relocation.	4400	LF	810	12-pair voice grade (jelly filled) telemetry interconnect cable (No.19 A.W.G.).
2	EA	814 .	12 in., ane-way, three section (RA,YA,GA) black faced adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	1500	LF	810	6-pair [Essex GOPIC-FSF] overall shielded communication cable (No. 19 AWG).
				35	LF.	805	1 in. liquid tight flexible non-metalic conduit for loop detector sleeve.
1	EA	814	12 in., one-way, three section (polycarbonate) (RA,YA,GA) black faced	75 ố	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
			adjustable traffic signalhead with span wire mounting hardware. and tunnelvisors.	7 .	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
1	1 EA	814	12 in., one-way, three section (RA,YA,GA) black faced adjustable traffic signal head with pole mounting hardware and tunnel visors.	80	LF	805	2 in. polyvinyl chloride ESchedule 801 electrical conduit - slotted in roadway.
				41Ô	. LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
4	EA	814	12 in., one-way, three section (R,Y,G) black faced adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	275	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
				300	LF	805	4 in. polyvinyl chloride ESchedule 803 electrical conduit - slotted in roadway.
Ź	EA	. 814	12 in., one-way three section (polycarbonate) (R,Y,G) black faced adjustable traffic signal head with span wire mounting hardware and tunnel visors.	11.0	CY	801	Concrete foundation for traffic signal equipment.
•		•		7	EA	804	Ground rod
3	EA .	814	12 in., one-way, four section (R,Y,G,GA) black faced adjustable traffic signal head with mast arm mounting hardware and tunnel visors.	1	EA	807	Control and distribution equipment (120/240 V, one phase, three wire system) for a type B-16 underground electrical service.
				50	LF	556	24 in. wide HAPPTPM - white for stop line.
	EA	814	12 in., one-way, four section (R,Y,G,GA) black faced adjustable traffic signal head with post top mounting	130	LF	VP-92-48	⅓in, steel span wire.
			hardware and tunnel visors.	1	ĒΑ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Class 2 wood pole.
1	EA	814		2	EA	nd nd 150	Back guy.
				Lump Sum	LS		Remove and salvage existing traffic signal equipment.
1	EA	814	12 in., two-way, two section (symbolic DW, WK) adjustable pedestrian signal head with pole mounting hardware and cut-away visors.				
1	EA	814	12 in., two-way, two section (symbolic DW, WK) adjustable pedestrian signal head with post top mounting hardware and cut-away visors.				
4	ËA	813	30 in. x 36 in. R 3-5(L) sign with most arm mounting hardware.				
3	EA	813	30 in. x 36 in. R 3-5(R) sign with mast arm mounting hardware.				
4	EA	813	30 in. x 36 in. R 3-6(L) sign with mast arm mounting hardware.				
. 1	EA	813	16 in. x 96 in. D-3(1) dual faced sign with under mast arm mounting hardware.				
1	EA	813	30 in. x 36 in. R 3-5(R) fiber-optic electric sign with mast arm mounting hardware.				
	E" A	917	Pedentrian numbertan apporably with numbertan aire				•

B. Existing equipment to be removed by the Contractor and delivered to the MDSHA Office of Traffic and Safety, Traffic Operations Division, Traffic Signal Shop, 7491 Connelley Drive, Hanover MD, 21076.

A twenty-four (24) hour notice is required prior to delivery. Please contact Mr. Ed Rodenhizer at (410)

Quantity Unit

Pedestrian pushbutton assembly with pushbutton sign.

Micro-loop probe (set of 3) with 750 ft. lead-in cable.

15 ft, luminaire arm.

mounting bracket.

250 W H.P.S. lamp and luminarie.

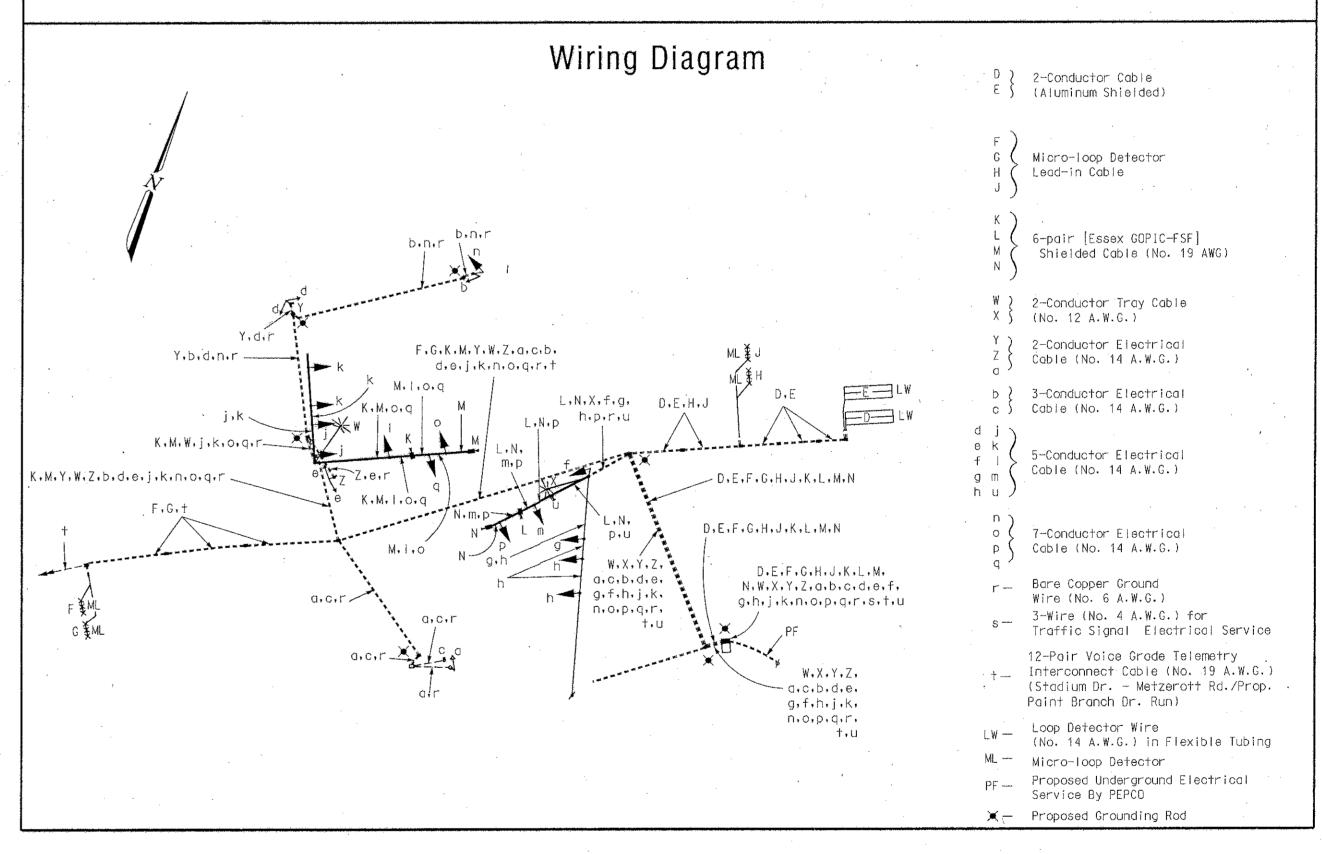
Video Detection Camera with mast arm

Units Des

Base mounted cabinet.

Note. All equipment and/or material not listed above shall become the property of the Contractor.

Phase Chart G R R R R R R R R R R R R R R 1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6 Phase 1 & 6 1 Change Phase 2 & 5 5 Change R WK DW ◆----Phase 2 & 6 Ped Clearance 2 & 6 Change Phase 3 3 Change Phase Alt 3 Ped Clearance



CONTACT LIST

The contact persons for District *3 are as follows:

Alt 3 Change
Phase 4
4 Change

Flashing Operation

Mr. Charles Watkins District Engineer 301-513-7311

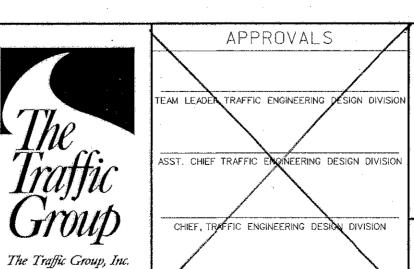
Mr. Majib Shakib Assistant District Engineer - Traffic 301-513-7358

Mr. John O. Warnick Assistant District Engineer - Utility 310-513-7336

Mr. Randy Brown Asistant District Engineer - Maintenance 310-513-7304

Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

The Power Company Representative is: PEPCO 8300 Old Marlboro Pike Upper Marlboro, Maryland 20722 310-670-8740



DRECTOR, TRAFFIC & SAFETY

410-931-6600

Fax 410-931-6601

 MARY	LAND DOT - :	STATE 1	HIGHWAY A	ADMINISTRATION
	Office of 7	Traffic	& Safety	
TRAFFIC	ENGINEE	RING	DESIGN	DIVISION

MD 193 at Metzerott Rd /Rel. Paint Branch Dr

ŧ	DRAWN BY: CHECKED BY		F.A.P. NO. S.H.A. NO.	N/A	TS NO. 1034-GI	SHEET NO.
- I	SCALE: DATE:	N/A February 5, 2001	COUNTY: LOG MILE:	Prince George's 16019303.44	T.I.M.S. NO. D-998	2OF4